

NON-LOW HYDROGEN COATED ELECTRODE

Patent Number: JP1233093
Publication date: 1989-09-18
Inventor(s): UMEKI MASAO; others: 01
Applicant(s): NIPPON STEEL CORP
Requested Patent: ☐ JP1233093
Application Number: JP19880059292 19880315
Priority Number(s):
IPC Classification: B23K35/365
EC Classification:
Equivalents: JP1769989C, JP4055795B

Abstract

PURPOSE: To improve the workability of welding and the welded quality by containing the specific wt.% of silicone and the balance arc stabilizer, slag making agent, deoxidizing agent, organic material and adhesive in coated material and further, if necessary, adding iron powder.

CONSTITUTION: The coated material in a non-low hydrogen welding rod is formed by containing 0.05-0.20wt.% silicone and the balance the arc stabilizer, slag making agent, deoxidizing agent, organic material and adhesive. If necessary, the iron powder is added. Molecular structure is the same as the silicate mineral and as it is composed of siloxane combination -Si-O-Si, it has excellent water repellency, heat resistance, aging resistance and non-volatility. By this method, in the case of using the welding rod under contacting with water or high humidity, high water-proof and moisture absorption resistance are obtd. Therefore, break-away and crack of the coated material during welding are prevented and welding workability and welded quality are improved.

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